

Sincock, Jennifer

From: Shull, Dustin <dushull@pa.gov>
Sent: Thursday, December 03, 2015 11:20 AM
To: Everett, Alan; Sincock, Jennifer
Cc: drago, helene; Richardson, William; Brown, Will; Walters, Gary
Subject: RE: Indian Reference, Sonde Sites
Attachments: IndianCk_RIVERWORK13.xls; IndianCk_RIVERWORK14.xls

Here's the water chemistry data we have for Indian Creek during 2013 and 2014. Please let me know if you have questions.

Best,

Dustin

Dustin Shull | Water Program Specialist
Environmental Protection | Point & Non-Point Source Management
Rachel Carson State Office Building
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From: Everett, Alan
Sent: Wednesday, December 02, 2015 5:05 PM
To: Sincock, Jennifer
Cc: drago, helene; Richardson, William; Brown, Will; Walters, Gary; Shull, Dustin
Subject: RE: Indian Reference, Sonde Sites

Hi Jennifer,

The region does not have TP and TN data for Indian during the CIM monitoring period. The Hilsenhoff raw metric values are included on the macroinvertebrate sample summary forms which you should have already. They are listed below :

Stream	Date	Site	Hilsenhoff Raw Metric
UNT Indian	9/6/2013	Harleysville Trib.	4.82
Indian	9/6/2013	@ Bergey Rd.	5.42
Indian	9/6/2013	@ Rt. 63	5.05
Indian	4/15/2013	@ Bergey Rd.	5.93
Indian	4/15/2013	@ Rt. 63	5.49

Alan

Alan Everett | Water Pollution Biologist 3
PA Department of Environmental Protection
Southeast Regional Office
2 East Main Street | Norristown, PA 19401
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www.depweb.state.pa.us

From: Sincock, Jennifer [<mailto:Sincock.Jennifer@epa.gov>]
Sent: Wednesday, December 02, 2015 4:17 PM
To: Brown, Will; Walters, Gary; Everett, Alan; Shull, Dustin
Cc: drago, helene; Richardson, William
Subject: FW: Indian Reference, Sonde Sites

Hi Bill, Gary, Alan and Dustin,
I wanted to follow up to see if you would be able to provide the Indian Creek data requested in the forwarded email. Please let me know if there are any questions or concerns. Thanks, Jen

Jennifer Sincock
Office of Standards, Assessment, and TMDLs
Water Protection Division
U.S. EPA Region III
1650 Arch Street (3WP30)
Philadelphia, PA 19103
(215) 814-5766

Check out the new Chesapeake Bay TMDL website at: <http://www2.epa.gov/chesapeake-bay-tmdl>

From: Sincock, Jennifer
Sent: Thursday, November 19, 2015 9:31 AM
To: 'Brown, Will' <willbrown@pa.gov>; Walters, Gary <gawalters@pa.gov>; Everett, Alan <aeverett@pa.gov>; 'dushull@pa.gov' <dushull@pa.gov>
Cc: drago, helene <drago.helene@epa.gov>; Richardson, William <Richardson.William@epa.gov>
Subject: RE: Indian Reference, Sonde Sites

Hi Bill,
Thanks for this data which is very helpful. Would you also be able to provide the 2013 and 2014 data for TP, TN and Hilsenhoff Biotic Index Scores in Indian Creek that were referenced in the Nutrient Impact Protocol? It would also be great to get the rest of the parameters (temp, specific conductance, pH, and DO saturation) for 2014. We used the 2013 data (see attached email from Dustin Shull to Bill Richardson) for these four parameters in the 2014 Reconsideration to help show Indian Creek is impaired for nutrients. Including all this data in the second reconsideration will really help show the Plaintiffs that Indian Creek is impaired for nutrients. Please let me know if there are any questions. Thanks, Jen

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Check out the new Chesapeake Bay TMDL website at: <http://www2.epa.gov/chesapeake-bay-tmdl>

From: Brown, Will [<mailto:willbrown@pa.gov>]
Sent: Friday, November 13, 2015 9:26 AM
To: Sincock, Jennifer <Sincock.Jennifer@epa.gov>; Walters, Gary <gawalters@pa.gov>; Everett, Alan <aeverett@pa.gov>

Cc: drago, helene <drago.helene@epa.gov>; Richardson, William <Richardson.William@epa.gov>

Subject: RE: Indian Reference, Sonde Sites

Jen,

Here is the Indian Creek (both Bergey Road and Rt. 63) diel DO data used in the development of the nutrient impairment assessment protocol. The rest of the parameters (temp, specific conductance, pH, DO saturation) could be extracted if necessary, but they are not used in the protocol and would need to be retrieved from our database by someone more savvy than me.

Have a good weekend,

Bill

From: Sincock, Jennifer [<mailto:Sincock.Jennifer@epa.gov>]

Sent: Thursday, November 12, 2015 2:19 PM

To: Walters, Gary; Everett, Alan

Cc: Brown, Will; drago, helene; Richardson, William

Subject: RE: Indian Reference, Sonde Sites

Hi Gary and Alan,

Thank you for sending the pdf's for ICE stations that could potentially serve as a reference watershed for Indian Creek. This information is very helpful. We will let you know if we have any questions.

I wanted to follow up on EPA's request for Indian Creek data used in the Draft PA Nutrient Impact Assessment Protocol (see attached email). For the March 21, 2014 Indian Creek Reconsideration, EPA had relied upon data collected by PADEP in 2013 at two sample locations within Indian Creek watershed: Bergey Road and Rt 63. I noted in the Draft PA Nutrient Impact Assessment Protocol that PADEP had included 2014 data as well as the 2013 data for Indian Creek. The 2014 data collection occurred from 3/19/2014 to 11/13/2014 for Indian Creek Bergey Road sample location and from 4/24/2014 to 11/13/2014 for Indian Creek Rt 63 sample location. Would you be able to share the 2014 Indian Creek data for use in EPA's second Indian Creek Nutrient TMDL reconsideration request? From the email chain below, I believe PADEP has already shared the Goose Creek data requested by EPA.

Thanks, Jen

Jennifer Sincock

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Check out the new Chesapeake Bay TMDL website at: <http://www2.epa.gov/chesapeake-bay-tmdl>

From: Walters, Gary [<mailto:gawalters@pa.gov>]

Sent: Thursday, November 05, 2015 7:24 AM

To: Richardson, William <Richardson.William@epa.gov>; Sincock, Jennifer <Sincock.Jennifer@epa.gov>

Cc: Brown, Will <willbrown@pa.gov>; Everett, Alan <aeverett@pa.gov>; drago, helene <drago.helene@epa.gov>

Subject: RE: Indian Reference, Sonde Sites

No that is data specifically for Goose Creek and doesn't include any of the data for the potential Indian Creek references. As for that data I will provided everything I can get my hands on.

Alan can you provide any pebble count data as I won't have that available to me?

Gary Walters | Environmental Group Mgr | Chief, Assessment Section
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From: Richardson, William [<mailto:Richardson.William@epa.gov>]
Sent: Wednesday, November 04, 2015 5:17 PM
To: Sincock, Jennifer; Walters, Gary
Cc: Brown, Will; Everett, Alan; drago, helene
Subject: RE: Indian Reference, Sonde Sites

Gary,
Is it safe to assume the Goose data you provided me last week are the same as Jen is requesting? If so, there is no need to send again. Jen was unaware I had already requested those data.

Bill Richardson
Office of Standards, Assessment and TMDLs
U.S. EPA Region 3
1650 Arch Street (3WP30)
Philadelphia, PA 19103
215-814-5675

From: Sincock, Jennifer
Sent: Wednesday, November 04, 2015 4:08 PM
To: Walters, Gary <gawalters@pa.gov>
Cc: Brown, Will <willbrown@pa.gov>; Everett, Alan <aeverett@pa.gov>; Richardson, William <Richardson.William@epa.gov>; drago, helene <drago.helene@epa.gov>
Subject: RE: Indian Reference, Sonde Sites

Hi Gary,
Thanks for sending these potential reference watersheds. EPA wouldn't be opposed to streams with higher protected use than Indian Creek. Would you be able to share any data available for these potential reference watersheds? For the Indian Creek and Black Horse Creek data call, you had shared information including benthic macroinvertebrate sampling summaries, maps, pebble count data, etc. Thank you again for sharing this information. Thanks, Jen

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Check out the new Chesapeake Bay TMDL website at: <http://www2.epa.gov/chesapeake-bay-tmdl>

From: Walters, Gary [<mailto:gawalters@pa.gov>]
Sent: Friday, October 30, 2015 12:36 PM
To: Sincock, Jennifer <Sincock.Jennifer@epa.gov>
Cc: Brown, Will <willbrown@pa.gov>; Everett, Alan <aeverett@pa.gov>; Richardson, William <Richardson.William@epa.gov>
Subject: FW: Indian Reference, Sonde Sites

Jen,

Attached is a summary table of the potential references that Alan Everett reviewed for Indian Creek. The best fit for soil types is Cuttaloosa Creek in Bucks County but the watershed is about 1/3 the drainage area of Indian Creek.

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From: Everett, Alan
Sent: Wednesday, July 08, 2015 10:35 AM
To: Walters, Gary; Brown, Will
Cc: Filip, Edward; Gocek, Gary M; Burke, David
Subject: RE: Indian Reference, Sonde Sites

Gary and Bill,

Deep is included. Personally I would be leary of Deep because of the Diabase. That is why the landuse looks so good (rocks beat humans). I would agree that this watershed would most likely be attaining with ICE.

alan

From: Everett, Alan
Sent: Wednesday, July 08, 2015 9:23 AM
To: Walters, Gary; Brown, Will
Cc: Filip, Edward; Gocek, Gary M; Burke, David
Subject: RE: Indian Reference, Sonde Sites

Gary and Bill,

I think Deep Creek is a little small and it is not Triassic Lowlands. The landuse and impervious cover looks good. I will work up the numbers and add them to the table. We should find out if EPA has heartburn about protected use.

alan

From: Walters, Gary
Sent: Wednesday, July 08, 2015 8:51 AM
To: Everett, Alan; Brown, Will
Cc: Filip, Edward; Gocek, Gary M; Burke, David
Subject: RE: Indian Reference, Sonde Sites

Alan,

What about Deep Creek in the Perkiomen? As I recall it was pretty good for SSWAP and it isn't special protection. Size could be an issue and we need current data since it hasn't been revisited since my assessment in 2000.

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From: Everett, Alan
Sent: Tuesday, July 07, 2015 5:08 PM
To: Walters, Gary; Brown, Will
Cc: Filip, Edward; Gocek, Gary M; Burke, David
Subject: Indian Reference, Sonde Sites

Gary and Bill,

Indian Reference – As we discussed with EPA, I took a desk-top look at potential sediment loading reference watersheds for Indian (see attached table and figure). Ideally I think we would like a comparable size watershed in the Triassic Lowlands that is unimpaired for ALU. The Triassic Lowlands do not really have any minimally disturbed watersheds. I included **Cuttalosa** on the list, it is unimpaired (just barely), but it would most likely not be a good fit because of its small size. I looked at a **Tinicum** (unimpaired in places, but probably due to contribution from Beaver), **Gallows** (upstream from Rt.611, no recent data, Ed has a unprocessed sample), and **Paunacussing** (ICE impaired). The Triassic lowlands could be termed skunked. Of the streams we looked at, my preference would be either **Beaver or Birch** (tribs to French). They are comparable in size to Indian, they are in the same level 3 ecoregion (N. Piedmont), and they are ALU attaining. Of concern would be the differing geology and possibly the protected use.

Delta DO/ Nutrient Impairment Control – Gary G. indicated that CO will be pulling Indian Creek and Goose Creek (?) sondes and were interested in deploying sondes in some good piedmont streams to bolster the sample size of ALU attaining streams in the Draft Nutrient Listing Methodology. My recommendation would be 1) Beaver (5 sq.mi.) or Birch (6.5 sq.mi.) , 2) French Creek (Upper Watershed, 19 sq. mi.), and 3) French Creek (USGS Gage, 59 sq. mi.)). French Creek is the best larger watershed in SER's Northern Piedmont, and Ed/DRBC has recent macroinvertebrate data showing attainment of ALU (South Branch will be impaired). I think those three sites would be good stations having a range of size, fairly good landuse, and lower nutrient concentrations.

Let me know if you want to discuss or we need further consideration of sites, and let me know what we decide to send to EPA.

Thanks,

alan